

**PCT/NL00/00036**

## CLAIMS

5 feature in the form of a perforation pattern which displays grey tones when viewed against a bright background, characterized in that the document is manufactured from a material which transmits light to a limited extent, that at least some of the perforations forming part of the perforation pattern extend over only a part of the thickness of the document at the position of the perforation, and that the thickness of the remaining part of the document at the position of the perforation is modulated in accordance with the image to be displayed.

2. Forge-proof document comprising a security feature in the form of a perforation pattern which displays grey tones when viewed against a bright background, characterized in that at least some of the perforations forming part of the perforation pattern extend at an angle differing from 90° relative to the main plane of the document.

3. Document as claimed in claim 2,  
characterized in that the angle is modulated in order to  
25 obtain the image.

4. Document as claimed in claim 2 or 3, characterized in that the density or the diameter of the perforation is modulated in order to obtain the image.

5. Document as claimed in any of the foregoing  
30 claims, ~~characterized in that~~ the perforation represents  
an image.

6. Forge-proof document comprising a security feature in the form of a perforation pattern which represents an image and which displays grey tones when viewed against a bright background, characterized in that material is arranged in the perforations.

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**PCT/NL00/00036**

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35 16. Document as claimed in any of the foregoing claims, **characterized in that** the cross-section of the perforation pattern in its transverse plane is unequal to a circle.

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PCT/NL00/00036

11

17. Document as claimed in any of the foregoing claims, characterized in that a code is concealed in the representation of an image.

18. Document as claimed in any of the foregoing 5 claims, characterized in that an intermediate layer with an ink is arranged in the carrier.

19. Document as claimed in claim 18, characterized in that the ink is only visible ink in UV light

10 20. Document as claimed in any of the foregoing claims, characterized in that the perforation is arranged in a protected element mounted on the carrier, such as an optically variable element.

15 21. Document as claimed in any of the foregoing claims, wherein the image represented by the perforation pattern corresponds with an image applied by means of graphic techniques, laser engraving technique or a photo, characterized in that both images coincide.

20 22. Document as claimed in claim 21, characterized in that the images are personalized.

23. Method for arranging a perforation pattern in a document as claimed in claim 3 or any of the claims dependent on claim 3, wherein the perforations are arranged by a laser, characterized in that the document 25 is processed in at least two different positions by a laser source.

24. Method for arranging a perforation pattern in a document as claimed in claim 16, characterized in that the document is processed in a single position from 30 a single laser source.

25. Method for arranging a perforation pattern in a document as claimed in claim 9, characterized in that a layer is first arranged on the document, the perforation is subsequently arranged, the document is 35 then subjected to a vapour deposition process and finally the foil is removed.

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